

Data sheet for three-phase Squirrel-Cage-Motors SIMOTICS

Motor type: GP100A FS: 184T - 4p - 5 hp -

Client order no.	Item-No.	Offer no.
Order no.	Consignment no.	Project
Remarks		

Electrical data

without

U [V]	Δ / Y	f [Hz]	P [HP]	P [kW]	n [rpm]	I Load [Amps]					LRC	Nom. Eff Load [%]			Pwr. Factor Load [%]			Torque [lb-ft]	T _A /T _N LRT [%]	T _k /T _N BDT [%]
						4/4	3/4	1/2	0	4/4		3/4	2/4	4/4	3/4	2/4				
460	Y	60	5.00	4.00	1,755	6.50	5.20	4.10	3.00	46.0	89.5	90.0	89.2	80.5	75.1	63.6	15.0	220	353	
230	Y Y	60	5.00	4.00	1,755	13.00	10.39	8.25	6.00	92.0	89.5	90.0	89.2	80.5	75.1	63.6	15.0	220	353	
400	Y	50	3.00		1,471	5.03	4.19	3.63	3.08	48.7	86.7	86.4	84.4	71.3	64.3	50.8	10.7	369	509	
200	Y Y	50	3.00		1,471	10.06	8.38	7.26	6.16	97.4	86.7	86.4	84.4	71.3	64.3	50.8	10.7	369	509	
Frame Type: 184T			Type of constr.: (E) Foot mounted - C-Face										Motor Prot.:(A) Without Protection			NEMA Des.: B		S.F.: 1.15		
Mtr. WT:70 lbs			Insulation Class.:Standard Class F Insulation							Temp. Rise Cl.: B		Amb. Temp.: + 40 to -20 °C @1000 m			kVA: J		IP 55			

Mechanical data

Sound level (SPL / SWL) at 60 Hz				57.0 dB(A) / 67.0 dB(A)				Thickener				Polyurea																			
Octave Band Center Frequencies Hertz								Safe Stall Time Hot								14 s															
250				500		1000		2000		4000		8000		Hz				Safe Stall Time Cold				29 s									
SPL@3				42.0		46.0		54.0		49.0		43.0		32.0		dB(A)				Frame material				aluminum							
Moment of inertia								0.3 Lb-ft²								Color, paint shade				Standard Paint - RAL7030											
Ext Load Inertia Capability:								27.0 Lb ft²								Coating (paint finish)				Standard Alkyed + Epoxy (C2)											
Bearings																Ventilation Type															
Bearing DE NDE								6206 ZZ C3 S0				6206 ZZ C3 S0				Method of cooling								TEFC							
Bearing_Type								Ball Bearing				Ball Bearing				Direction of rotation								Bidirectional							
AFBMA:								30BC02JPP30				30BC02JPP30				Fan Material								Polypropylen							
Grease																VFD								CT: 4:1 VT: 20:1							
Capacity								0.2 oz				0.2 oz				Space heaters								without							
Grease Type:								Exxon Mobile EM								Brake:								without							

Terminal box

Lead Wire Connection					9 LEAD - WYE	Terminal box position	(3) F-1, Standard Floor Mount, T. Box LHS
Voltage	L1	L2	L3	Connected together		Material of terminal box	Aluminium
LOW	T1 T7	T2 T8	T3 T9	T4 T5 T6		Cable entry	.75" NPT
HIGH	T1	T2	T3	T4 T7-T5 T8-T6 T9			

Notes:

I_L/I_N = locked rotor current / current nominal
M_L/M_N = locked rotor torque / torque nominal
M_b/M_N = break down torque / nominal torque

3) Value is valid only for DOL operation with motor design IC411
2) at rated power / at full load

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